

Application No. 09/880,907

IN THE CLAIMS

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

²/~~4~~. (Currently Amended) The method of claim ¹/~~27~~, wherein said composition contains the essential oil in a concentration of from 0.5% to 20% vol/vol.

¹⁹/~~5~~. (Currently Amended) The method of claim ¹⁸/~~28~~, wherein said composition contains the essential oil in a concentration of from 0.5% to 20% vol/vol.

²⁶/~~6~~. (Currently Amended) The method of claim ³⁵/~~29~~, wherein said composition contains the essential oil in a concentration of from 0.5% to 20% vol/vol.

³⁷/~~7~~. (Currently Amended) The method of claim ¹/~~27~~, wherein said composition contains the essential oil in a concentration of from 1.0% to 3.0% vol/vol.

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¹⁸
8. (Currently Amended) The method of claim 2 ~~28~~, wherein said composition contains the essential oil in a concentration of from 1.0% to 3.0% vol/vol.

³⁵
9. (Currently Amended) The method of claim 3 ~~29~~, wherein said composition contains the essential oil in a concentration of from 1.0% to 3.0% vol/vol.

10. (Cancelled)

11. (Cancelled)

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⁴
12. (Currently Amended) The method of claim 11 ~~27~~, wherein said complex carbohydrate is selected from the group consisting of oligosaccharides, ~~sialylated oligosaccharides~~, polysaccharides, glycosaminoglycans and mixtures thereof.

¹
⁵
13. (Currently Amended) The method of claim 11 ~~27~~, wherein said essential oil is selected from the group consisting of Eucalyptus Oil, Rosemary Oil, Pine Needle Oil, Tea Tree Oil, Wintergreen Oil, Peppermint Oil, Spearmint Oil, Camphor Oil, Sage Oil, Jojoba Oil, Cinnamon Oil, Anise Oil, Lemon Oil, Lime Oil, Orange Oil, Clove Oil, Almond Oil, White Pine Oil, Cardamon Oil, Cedar Leaf oil and mixtures thereof.

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²¹
~~14~~. (Currently Amended) The method of claim ~~12~~ ¹⁸ ~~28~~, wherein said essential oil is selected from the group consisting of Eucalyptus Oil, Rosemary Oil, Pine Needle Oil, Tea Tree Oil, Wintergreen Oil, Peppermint Oil, Spearmint Oil, Camphor Oil, Sage Oil, Jojoba Oil, Cinnamon Oil, Anise Oil, Lemon Oil, Lime Oil, Orange Oil, Clove Oil, Almond Oil, White Pine Oil, Cardamon Oil, Cedar Leaf oil and mixtures thereof.

⁶
~~15~~. (Currently Amended) The method of claim ~~11~~ ¹ ~~27~~, wherein said complex carbohydrate is selected from the group consisting of a glycosaminoglycan and a mannan.

⁴
~~16~~. (Original) The method of claim ⁶ ~~15~~, wherein said glycosaminoglycan is selected from the group consisting of hyaluronic acid, heparin, heparin sulfate, chondroitin sulfate, polysulfated glycosaminoglycan and keratan sulfate.

⁸
~~17~~. (Currently Amended) The method of claim ~~11~~ ¹ ~~27~~, wherein said complex carbohydrate comprises a mixture of complex carbohydrates of different molecular weight ranges.

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⁸
~~18~~. (Currently Amended) The method of claim ~~11~~ ¹~~27~~, wherein said complex carbohydrate comprises a mixture of a high molecular weight complex carbohydrate to and a low molecular weight complex carbohydrate.

¹⁰
~~19~~. (Original) The method of claim ⁹~~18~~, wherein the high molecular weight and low molecular weight complex carbohydrate differ by chemical structure.

¹¹
~~20~~. (Original) The method of claim ⁹~~18~~, wherein said high molecular weight and low molecular weight complex carbohydrates have the same complex carbohydrate structure, but are of two different ranges of molecular weight.

¹²
~~21~~. (Currently Amended) The method of claim ~~11~~ ¹~~27~~, wherein said complex carbohydrate is in a concentration ranging from 0.1% to 99% wt/vol and said essential oil is in a concentration from 0.5% to 20% vol/vol.

¹³
~~22~~. (Currently Amended) The method of claim ~~11~~ ¹~~27~~, wherein said complex carbohydrate is in a concentration ranging from 0.5% to 3.0% wt/vol and said a essential oil is in a concentration of between 0.5% and 3.0% vol/vol.

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¹⁴/~~23~~. (Currently Amended) The method of claim ~~11~~ ¹/~~27~~, wherein said complex carbohydrate is present in a concentration ranging from 0.01% to 5.0% wt/vol and said essential oil is present in a concentration ranging from 0.5% to 10% vol/vol in an Aloe Vera gel concentrate base with a concentration of between 50% and 99% vol/vol.

¹⁵/~~24~~. (Currently Amended) The method of claim ~~11~~ ¹/~~27~~, wherein said pharmaceutical composition consists essentially of as an active ingredient a pharmacologically effective amount of at least one complex carbohydrate selected from the group consisting of a mixture of high and low molecular weight ranges of low purity or cosmetic grade hyaluronic acid in a total concentration of between 0.5% and 3.0% wt/vol and at least one essential oil selected from the group consisting of Tea Tree Oil, Rosemary Oil, Peppermint Oil and Wintergreen Oil in a total concentration of between. 0.5% and 3.0% vol/vol.

¹⁶/~~25~~. (Currently Amended) The method of claim ~~11~~ ¹/~~27~~, wherein said at least one complex carbohydrate has a molecular weight in the range of from 100,000 to 500,000 daltons.

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~~17~~ 26. (Currently Amended) The method of claim ~~14~~ ¹ ~~27~~, wherein said at least one complex carbohydrate has a molecular weight in the range of greater than 750,000 daltons.

~~18~~ 27. (Previously Presented) A method for effecting transdermal migration of a macromolecule comprising applying a pharmaceutical composition to an area of skin of a mammal, wherein said pharmaceutical composition is a topical pharmaceutical composition which comprises as an active ingredient a pharmacologically effective amount of at least one low purity or cosmetic grade complex carbohydrate selected from the group consisting of oligosaccharides, sialylated oligosaccharides, polysaccharides and glycosaminoglycans, and at least one essential oil in an amount effective to allow penetration of the dermis of mammals by the complex carbohydrate.

~~18~~ 28. (Previously Presented) A method for promoting granulation of wounds comprising applying directly to said wound a pharmaceutical composition, wherein said pharmaceutical composition is a topical pharmaceutical composition which comprises as an active ingredient a pharmacologically effective amount of at least one low purity or cosmetic grade complex carbohydrate selected from the group consisting of oligosaccharides, sialylated oligosaccharides, polysaccharides

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and glycosaminoglycans, and at least one essential oil in an amount effective to allow penetration of the dermis of mammals by the complex carbohydrate.

~~51~~ 29. (Previously Presented) A method for effecting transdermal migration of a macromolecule comprising applying a pharmaceutical composition to an area of skin of a mammal, wherein said pharmaceutical composition comprises as an active ingredient a pharmacologically effective amount of at least one low purity or cosmetic grade complex carbohydrate selected from the group consisting of oligosaccharides, sialylated oligosaccharides, polysaccharides and glycosaminoglycans, and at least one essential oil in an amount effective to allow penetration of the dermis of mammals by the complex carbohydrate.

~~52~~ 30. (Previously Presented) A method for promoting granulation of wounds comprising applying directly to said wound a pharmaceutical composition which comprises as an active ingredient a pharmacologically effective amount of at least one low purity or cosmetic grade complex carbohydrate selected from the group consisting of oligosaccharides, sialylated oligosaccharides, polysaccharides and glycosaminoglycans, and at least one essential oil in an amount effective to allow penetration of the dermis of mammals by the complex carbohydrate.

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⁵³
~~31.~~ (New) The method of claim ⁵²~~30~~, wherein said composition contains the essential oil in a concentration of from 0.5% to 20% vol/vol.

⁵⁴
~~32.~~ (New) The method of claim ⁵²~~30~~, wherein said composition contains the essential oil in a concentration of from 1.0% to 3.0% vol/vol.

²²
~~33.~~ (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate is selected from the group consisting of oligosaccharides, polysaccharides, glycosaminoglycans and mixtures thereof.

³⁸
~~34.~~ (New) The method of claim ²⁵~~29~~, wherein said complex carbohydrate is selected from the group consisting of oligosaccharides, polysaccharides, glycosaminoglycans and mixtures thereof.

⁵⁵
~~35.~~ (New) The method of claim ⁵²~~30~~, wherein said complex carbohydrate is selected from the group consisting of oligosaccharides, polysaccharides, glycosaminoglycans and mixtures thereof.

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³⁶
36. (New) The method of claim ³⁵~~25~~, wherein said essential oil is selected from the group consisting of Eucalyptus Oil, Rosemary Oil, Pine Needle Oil, Tea Tree Oil, Wintergreen Oil, Peppermint Oil, Spearmint Oil, Camphor Oil, Sage Oil, Jojoba Oil, Cinnamon Oil, Anise Oil, Lemon Oil, Lime Oil, Orange Oil, Clove Oil, Almond Oil, White Pine Oil, Cardamon Oil, Cedar Leaf oil and mixtures thereof.

³⁶
37. (New) The method of claim ⁵²~~30~~, wherein said essential oil is selected from the group consisting of Eucalyptus Oil, Rosemary Oil, Pine Needle Oil, Tea Tree Oil, Wintergreen Oil, Peppermint Oil, Spearmint Oil, Camphor Oil, Sage Oil, Jojoba Oil, Cinnamon Oil, Anise Oil, Lemon Oil, Lime Oil, Orange Oil, Clove Oil, Almond Oil, White Pine Oil, Cardamon Oil, Cedar Leaf oil and mixtures thereof.

²³
28. (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate is selected from the group consisting of a glycosaminoglycan and a mannan.

⁴⁰
39. (New) The method of claim ³⁵~~29~~, wherein said complex carbohydrate is selected from the group consisting of a glycosaminoglycan and a mannan.

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⁵⁷
~~40~~. (New) The method of claim ⁵²~~30~~, wherein said complex carbohydrate is selected from the group consisting of a glycosaminoglycan and a mannan.

²⁴
~~41~~. (New) The method of claim ²³~~38~~, wherein said glycosaminoglycan is selected from the group consisting of hyaluronic acid, heparin, heparin sulfate, chondroitin sulfate, polysulfated glycosaminoglycan and keratan sulfate.

⁴¹
~~42~~. (New) The method of claim ⁴⁰~~39~~, wherein said glycosaminoglycan is selected from the group consisting of hyaluronic acid, heparin, heparin sulfate, chondroitin sulfate, polysulfated glycosaminoglycan and keratan sulfate.

⁵⁸
~~43~~. (New) The method of claim ⁵⁷~~40~~, wherein said glycosaminoglycan is selected from the group consisting of hyaluronic acid, heparin, heparin sulfate, chondroitin sulfate, polysulfated glycosaminoglycan and keratan sulfate.

²⁵
~~44~~. (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate comprises a mixture of complex carbohydrates of different molecular weight ranges.

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⁴²
~~45~~. (New) The method of claim ³⁵~~28~~, wherein said complex carbohydrate comprises a mixture of complex carbohydrates of different molecular weight ranges.

⁵⁹
~~46~~. (New) The method of claim ⁵²~~30~~, wherein said complex carbohydrate comprises a mixture of complex carbohydrates of different molecular weight ranges.

²⁶
~~47~~. (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate comprises a mixture of a high molecular weight complex carbohydrate to and a low molecular weight complex carbohydrate.

⁴³
~~48~~. (New) The method of claim ³⁵~~28~~, wherein said complex carbohydrate comprises a mixture of a high molecular weight complex carbohydrate to and a low molecular weight complex carbohydrate.

⁶⁰
~~49~~. (New) The method of claim ⁵²~~30~~, wherein said complex carbohydrate comprises a mixture of a high molecular weight complex carbohydrate to and a low molecular weight complex carbohydrate.

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~~27~~
50. (New) The method of claim ~~47~~²⁶, wherein the high molecular weight and low molecular weight complex carbohydrate differ by chemical structure.

~~44~~
51. (New) The method of claim ~~48~~⁴³, wherein the high molecular weight and low molecular weight complex carbohydrate differ by chemical structure.

~~61~~
52. (New) The method of claim ~~49~~⁶⁰, wherein the high molecular weight and low molecular weight complex carbohydrate differ by chemical structure.

~~28~~
53. (New) The method of claim ~~47~~²⁶, wherein said high molecular weight and low molecular weight complex carbohydrates have the same complex carbohydrate structure, but are of two different ranges of molecular weight.

~~45~~
54. (New) The method of claim ~~48~~⁴³, wherein said high molecular weight and low molecular weight complex carbohydrates have the same complex carbohydrate structure, but are of two different ranges of molecular weight.

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⁶²
~~55~~. (New) The method of claim ⁶⁰~~49~~, wherein said high molecular weight and low molecular weight complex carbohydrates have the same complex carbohydrate structure, but are of two different ranges of molecular weight.

²⁹
~~56~~. (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate is in a concentration ranging from 0.1% to 99% wt/vol and said essential oil is in a concentration from 0.5% to 20% vol/vol.

⁴⁶
~~57~~. (New) The method of claim ³⁵~~29~~, wherein said complex carbohydrate is in a concentration ranging from 0.1% to 99% wt/vol and said essential oil is in a concentration from 0.5% to 20% vol/vol.

⁶³
~~58~~. (New) The method of claim ⁵²~~30~~, wherein said complex carbohydrate is in a concentration ranging from 0.1% to 99% wt/vol and said essential oil is in a concentration from 0.5% to 20% vol/vol.

³⁰
~~59~~. (New) The method of claim ¹⁸~~28~~, wherein said complex carbohydrate is in a concentration ranging from 0.5% to 3.0% wt/vol and said a essential oil is in a concentration of between 0.5% and 3.0% vol/vol.

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⁴⁷
~~60~~. (New) The method of claim ³⁵
~~29~~, wherein said complex carbohydrate is in a concentration ranging from 0.5% to 3.0% wt/vol and said a essential oil is in a concentration of between 0.5% and 3.0% vol/vol.

⁶⁴
~~61~~. (New) The method of claim ⁵²
~~30~~, wherein said complex carbohydrate is in a concentration ranging from 0.5% to 3.0% wt/vol and said a essential oil is in a concentration of between 0.5% and 3.0% vol/vol.

¹³
~~62~~. (New) The method of claim ¹⁸
~~28~~, wherein said complex carbohydrate is present in a concentration ranging from 0.01% to 5.0% wt/vol and said essential oil is present in a concentration ranging from 0.5% to 10% vol/vol in an Aloe Vera gel concentrate base with a concentration of between 50% and 99% vol/vol.

⁴⁸
~~63~~. (New) The method of claim ³⁵
~~29~~, wherein said complex carbohydrate is present in a concentration ranging from 0.01% to 5.0% wt/vol and said essential oil is present in a concentration ranging from 0.5% to 10% vol/vol in an Aloe Vera gel concentrate base with a concentration of between 50% and 99% vol/vol.

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⁶⁵₆₄. (New) The method of claim ⁵²₃₀, wherein said complex carbohydrate is present in a concentration ranging from 0.01% to 5.0% wt/vol and said essential oil is present in a concentration ranging from 0.5% to 10% vol/vol in an Aloe Vera gel concentrate base with a concentration of between 50% and 99% vol/vol.

³²₆₅. (New) The method of claim ¹⁸₂₈, wherein said pharmaceutical composition consists essentially of as an active ingredient a pharmacologically effective amount of at least one complex carbohydrate selected from the group consisting of a mixture of high and low molecular weight ranges of low purity or cosmetic grade hyaluronic acid in a total concentration of between 0.5% and 3.0% wt/vol and at least one essential oil selected from the group consisting of Tea Tree Oil, Rosemary Oil, Peppermint Oil and Wintergreen Oil in a total concentration of between 0.5% and 3.0% vol/vol.

⁴⁹₆₆. (New) The method of claim ³⁵₂₈, wherein said pharmaceutical composition consists essentially of as an active ingredient a pharmacologically effective amount of at least one complex carbohydrate selected from the group consisting of a mixture of high and low molecular weight ranges of low purity or cosmetic grade hyaluronic acid in a total concentration of between 0.5% and 3.0% wt/vol and at least one essential oil

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selected from the group consisting of Tea Tree Oil, Rosemary Oil, Peppermint Oil and Wintergreen Oil in a total concentration of between 0.5% and 3.0% vol/vol.

⁶⁶
~~67~~. (New) The method of claim ⁵²
~~30~~, wherein said pharmaceutical composition consists essentially of as an active ingredient a pharmacologically effective amount of at least one complex carbohydrate selected from the group consisting of a mixture of high and low molecular weight ranges of low purity or cosmetic grade hyaluronic acid in a total concentration of between 0.5% and 3.0% wt/vol and at least one essential oil selected from the group consisting of Tea Tree Oil, Rosemary Oil, Peppermint Oil and Wintergreen Oil in a total concentration of between 0.5% and 3.0% vol/vol.

³³
~~68~~. (New) The method of claim ¹⁸
~~28~~, wherein said at least one complex carbohydrate has a molecular weight in the range of from 100,000 to 500,000 daltons.

⁵⁹
~~69~~. (New) The method of claim ³⁵
~~29~~, wherein said at least one complex carbohydrate has a molecular weight in the range of from 100,000 to 500,000 daltons.

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⁶⁷
~~70~~. (New) The method of claim ⁵²~~30~~, wherein said at least one complex carbohydrate has a molecular weight in the range of from 100,000 to 500,000 daltons.

¹⁸
~~71~~. (New) The method of claim ¹⁸~~28~~, wherein said at least one complex carbohydrate has a molecular weight in the range of greater than 750,000 daltons.

³⁵
~~72~~. (New) The method of claim ³⁵~~29~~, wherein said at least one complex carbohydrate has a molecular weight in the range of greater than 750,000 daltons.

⁵²
⁶⁸~~73~~. (New) The method of claim ⁵²~~30~~, wherein said at least one complex carbohydrate has a molecular weight in the range of greater than 750,000 daltons.